

# **CONAPOXY® FR-1810 Part B Hardener**

Version 4 Revision Date 08/04/2021 Print Date 08/04/2021

#### **SECTION 1. IDENTIFICATION**

Product name : CONAPOXY® FR-1810 Part B Hardener

Manufacturer or supplier's details

Company : ELANTAS PDG, INC.

5200 North 2nd Street St. Louis MO 63147

Telephone : (314) 621-5700 Visit our web site : www.elantas.com

E-mail address : Todd.Thomas@altana.com

Emergency telephone

number

INFOTRAC - 1-800-535-5053

Recommended use of the chemical and restrictions on use

Recommended use : Electrical Insulation

Restrictions on use : This product is for industrial use only. It is not intended for

consumer use or retail sale.

Refer to Section 15 for any restrictions that may apply

## **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Skin corrosion : Category 1B

Serious eye damage : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system)

**GHS** label elements

Hazard pictograms :







Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation. H361f Suspected of damaging fertility.

Precautionary statements : **Prevention**:

P201 Obtain special instructions before use.



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P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

## Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

## Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : Modified Aliphatic Polyamine

**Hazardous components** 

Component	CAS-No.	Concentration (%)
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6	>= 20 -< 21
1,3-Benzenedimethanamine	1477-55-0	>= 4 - < 5
4-tert-butylphenol	98-54-4	>= 4 - < 5
Tetraethylenepentamine	112-57-2	>= 3 -< 4



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Kaolin	1332-58-7	>= 3 -< 4
Aliphatic diamine	3236-53-1	>= 1 -< 2

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

: If unconscious, place in recovery position and seek medical If inhaled

advice.

If symptoms persist, call a physician.

: Immediate medical treatment is necessary as untreated In case of skin contact

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

: Keep respiratory tract clear. If swallowed

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

## **SECTION 5. FIREFIGHTING MEASURES**

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for firefighters

Special protective equipment : Wear self-contained breathing apparatus for firefighting if

necessary.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, : Use personal protective equipment.



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protective equipment and emergency procedures

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

## **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used

Conditions for safe storage : Store under conditions specified on the product Technical

Data Sheet to maintain product quality.

Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1,3-Benzenedimethanamine	1477-55-0	С	0.018 ppm	ACGIH
1,3-Benzenedimethanamine		С	0.1 mg/m3	NIOSH REL
Tetraethylenepentamine	112-57-2	TWA	5 mg/m3	US WEEL
Kaolin	1332-58-7	TWA (Respirable fraction)	2 mg/m3	ACGIH



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Kaolin	TWA (total dust)	15 mg/m3	OSHA Z-1
Kaolin	TWA (respirable fraction)	5 mg/m3	OSHA Z-1
Kaolin	TWA (Total dust)	10 mg/m3	OSHA P0
Kaolin	TWA (respirable dust fraction)	5 mg/m3	OSHA P0

Hazardous components without workplace control parameters

**Engineering measures** : Use with adequate ventilation.

All application areas should be ventilated in accordance with applicable OSHA regulations. (e.g. 29 CFR 1910.94)
This product contains a particulate(s) that is considered hazardous per OSHA (29 CFR 1910.1200) and is listed in

Section III as a precautionary warning.

Under normal conditions of use, this product as supplied does not pose a health risk from particulate matter. Physical degradation of the cured product (i.e. sanding,

abrading, etc.) may pose a dust hazard.

Repeated inhalation of such dust may cause lung injury.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Odour Threshold : No data available

pH : No data available

Melting point/freezing point

Initial boiling point and boiling : No data available

range

: No data available



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Vapour pressure : No data available

Flash point : > 201 °F (> 94 °C)

Method: No information available.

Information taken from reference works and the literature.

Upper explosion limit : No data available

Lower explosion limit : No data available

Evaporation rate : No data available

: No data available Flammability (solid, gas)

Relative vapour density : No data available

Relative Density/Specific

Gravity

: No data available

Density : 1.54 g/cm3 (77 °F (25 °C))

Solubility(ies)

: No data available Water solubility

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Ignition temperature : No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 21 mm2/s (104 °F (40 °C))

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed. Chemical stability : No decomposition if stored and applied as directed. : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No data available

Conditions to avoid Hazardous decomposition

: Carbon monoxide in a fire. Nitrogen oxides in a fire.

products

Ammonia



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## **SECTION 11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

## **Acute toxicity**

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 200 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 5,000 mg/kg

Method: Calculation method

## **Components:**

1477-55-0 1,3-Benzenedimethanamine:

Acute oral toxicity : LD50 (Rat): 930 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.7500 mg/l

Acute dermal toxicity : LD50 (Rabbit): 3,938 mg/kg

112-57-2 Tetraethylenepentamine:

Acute oral toxicity : LD50 Oral (Rat): 3,990 mg/kg

Acute dermal toxicity : LD50 (Rat): 660 mg/kg

## Skin corrosion/irritation

## **Product:**

Remarks: Extremely corrosive and destructive to tissue.

#### Components:

## 1477-55-0 1,3-Benzenedimethanamine:

Species: Rabbit

Result: Corrosive to skin

## Serious eye damage/eye irritation

## **Product:**

Remarks: May cause irreversible eye damage.

## **Components:**

## 1477-55-0 1,3-Benzenedimethanamine:

Species: Rabbit



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Result: Corrosive to eyes

Respiratory or skin sensitisation

**Product:** 

Remarks: Causes sensitisation.

Carcinogenicity

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

**Further information** 

**Product:** 

Remarks: No data available

#### **SECTION 12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

**Product:** 

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).



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Additional ecological

information

: No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

: WC: C

**EPA Hazardous Waste** 

Code(s)

: none

Waste from residues : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

## **International Regulations**

**IATA-DGR** 

UN/ID No. : UN 1760

Proper shipping name : Corrosive liquid, n.o.s.

(Tetraethylenepentamine, m-Phenylenebis(methylamine))

Class : 8 Packing group : III

Labels : Corrosive

Packing instruction (cargo

aircraft)

Packing instruction : 852

(passenger aircraft)

**IMDG-Code** 

UN number : UN 1760

Proper shipping name : CORROSIVE LIQUID, N.O.S.

: 856

(TETRAETHYLENEPENTAMINE, m-

Phenylenebis(methylamine))

Marine Pollutant : (4-tert-butylphenol)

Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

# **National Regulations**



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**49 CFR** 

UN/ID/NA number : UN 1760

Proper shipping name : Corrosive liquids, n.o.s.

(Tetraethylenepentamine, m-Phenylenebis(methylamine))

Class : 8 Packing group : III

Labels : CORROSIVE

ERG Code : 154

Marine pollutant : yes (4-tert-butylphenol)

#### **SECTION 15. REGULATORY INFORMATION**

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

## US. EPA CERCLA Hazardous Substances (40 CFR 302)

Calculated RQ exceeds reasonably attainable upper limit.

## SARA 304 - Emergency Release Notification

This material does not contain any components with a section 304 EHS RQ.

# US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : Per the June 13, 2016 Federal Register notice, EPA

harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for

reporting purposes.

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).



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Non-volatile (Wt) : Refer to the product technical data sheet for VOC information.

#### Massachusetts Right To Know

1,3-Benzenedimethanamine1477-55-0Tetraethylenepentamine112-57-2Kaolin1332-58-7

## Pennsylvania Right To Know

Aluminium hydroxide 21645-51-2 Fatty acids, tall-oil, reaction products with 68953-36-6 tetraethylenepentamine

1,3-Benzenedimethanamine1477-55-04-tert-butylphenol98-54-4

Curing Agent -

Tetraethylenepentamine 112-57-2 Kaolin 1332-58-7

# **New Jersey Right To Know**

Aluminium hydroxide 21645-51-2 Fatty acids, tall-oil, reaction products with 68953-36-6

tetraethylenepentamine

1,3-Benzenedimethanamine1477-55-04-tert-butylphenol98-54-4

Curing Agent -

Tetraethylenepentamine 112-57-2 Kaolin 1332-58-7

New Jersey Trade Secret : Not Applicable

Registry Number for the product (NJ TSRN)

## California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## The components of this product are reported in the following inventories:

TSCA : We certify that all of the components of this product are either

listed on the TSCA Inventory or are not subject to the

notification requirements per 40 CFR 720 30(h).

Section 4 / 12(b) : Not applicable

Section 5 Not applicable

Section 6 Not applicable

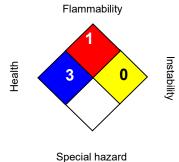


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## **SECTION 16. OTHER INFORMATION**

## **Further information**

## NFPA:



## HMIS III:

HEALTH	3*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.